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=> b reg
FILE 'REGISTRY' ENTERED AT 15:12:51 ON 14 SEP 2004
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STRUCTURE FILE UPDATES:   13 SEP 2004  HIGHEST RN 744170-41-0
DICTIONARY FILE UPDATES:  13 SEP 2004  HIGHEST RN 744170-41-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d ide l18 tot

L18  ANSWER 1 OF 3  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   500729-75-9  REGISTRY
CN   Furo[2,3-d]-1,3,2-dioxaphosphole-6-carboxamide, tetrahydro-2,6a-dihydroxy-
     , 2-oxide (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C5 H8 N O7 P
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
DT.CA  CAplus document type:  Patent
RL.P   Roles from patents:  BIOL (Biological study); PREP (Preparation); USES
       (Uses)
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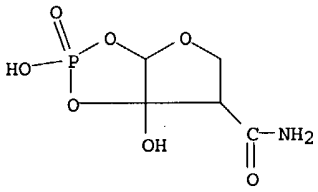


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              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L18  ANSWER 2 OF 3  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   500729-74-8  REGISTRY
CN   Boron, dihydroxy[tetrahydro-4-hydroxy-4,5-di(hydroxy-.kappa.O)-2-
     furancarboxamidato(2-)]-, (T-4)- (9CI)  (CA INDEX NAME)
MF   C5 H9 B N O7
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
DT.CA  CAplus document type:  Patent
RL.P   Roles from patents:  BIOL (Biological study); PREP (Preparation); USES
       (Uses)
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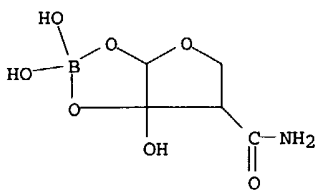


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              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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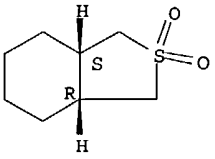
L18 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN **66301-61-9** REGISTRY
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, cis-
OTHER NAMES:
CN cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide
FS STEREOSEARCH
MF **C8 H14 O2 S**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE 'REGISTRY' ENTERED AT 14:12:46 ON 14 SEP 2004
DEL DEL882Q1/A
ACT WED770S/A

L1 STR
L2 43 SEA FILE=REGISTRY SSS SAM L1

L3 SCR 2039 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 2043 OR 205
L4 44 L1 NOT L3
L5 SCR 1838
L6 45 L1 AND L5 NOT L3
L7 STR L1
L8 STR L7
L9 SCR 1838 AND 2005
L10 17 L9 NOT L3 AND L8
L11 SCR 2039 OR 2041 OR 2050 OR 2049 OR 2048 OR 2053 OR 2052 OR 204
L12 0 L8 AND L9 NOT L11

FILE 'HCAPLUS' ENTERED AT 15:04:12 ON 14 SEP 2004
L14 1 US20040152669/PN

FILE 'REGISTRY' ENTERED AT 15:04:23 ON 14 SEP 2004

FILE 'HCAPLUS' ENTERED AT 15:04:25 ON 14 SEP 2004
L15 TRA L14 1- RN : 12 TERMS

FILE 'REGISTRY' ENTERED AT 15:04:26 ON 14 SEP 2004
L16 12 SEA L15
L17 7 L16 AND NR>=1
L18 3 L17 AND (C5H9BNO7 OR C5H8NO7P OR C8H14O2S)

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L19 4 L18

FILE 'HCAOLD' ENTERED AT 15:11:12 ON 14 SEP 2004
L20 0 L18

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L21          152 E3,E20-21
                E YAGER K/AU
L22           22 E3,E11-13
                E COOPER STEPHEN/AU
L23          157 E3,E18-21
L24            9 QUOREX/CS,PA
L25            1 L19 AND L21-24
L26            3 L19 NOT L25
L27            3 L26 AND (PY<=2001 OR AY<=2001 OR PRY<=2001 OR PD<20010824 OR AD

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FILE 'HCAPLUS' ENTERED AT 15:13:35 ON 14 SEP 2004
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FILE COVERS 1907 - 14 Sep 2004  VOL 141 ISS 12
FILE LAST UPDATED: 13 Sep 2004  (20040913/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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L25  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:173445  HCAPLUS
DN   138:221708
ED   Entered STN:  07 Mar 2003
TI   Preparation of antibacterial agents based upon oxyanion binding
IN   Cooper, Stephen R.; Yager, Kraig M.
PA   Quorex Pharmaceuticals, Inc., USA
SO   PCT Int. Appl., 29 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
IC   ICM  A61K031-69
CC   29-7 (Organometallic and Organometalloidal Compounds)
     Section cross-reference(s): 1, 10, 25, 27, 28, 63
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     --------------      ----   --------    --------------------    --------
PI   WO 2003018029        A1    20030306    WO 2002-US27154         20020822
         W:  AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES,
             FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
             MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK,
             SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW,
             AM, AZ, BY, KG
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
     US 2003105062         A1    20030605    US 2002-227327          20020822
     US 6737415            B2    20040518
     EP 1418923            A1    20040519    EP 2002-759457          20020822
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
     US 2004152669         A1    20040805    US 2003-676770          20031001
PRAI US 2001-314683P       P     20010824
     US 2002-227327        A3    20020822
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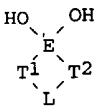
WO 2002-US27154 W 20020822

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003018029	ICM	A61K031-69
US 2003105062	ECLA	A61K031/38; A61K031/381; A61K031/425; A61K031/66; A61K031/69

OS CASREACT 138:221708; MARPAT 138:221708

GI



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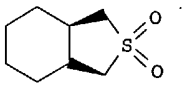


II

AB Oxyanion compds. I [E = B, P,S; T1, T2 = O, NR, CH2; R = H, C1-8-alkyl, C1-8-oxoalkyl; L = ethyelen, propylene, C4-6-alicyclic (cyclopentyl, cyclohexyl, pyrrolidine, THF, piperidine, pyran, dioxane, morpholine), aromatic (pyrrole, furan, pyridine, pyridimidine, pyrazine, imidazole, thiazole, oxazole, purine, indazole)] are useful for treating bacterial growth. Thus, sulfone II was prepared from cis-1,2-cyclohexanedimethanol dimesylate via reaction with Na2S in DMSO followed by S-oxidation with monoperphthalic acid in Et2O. The compds. may be used to treat bacterial infections in human beings and to regulate biofilm formation (no data). Pharmaceutical compns. comprising one or more such compds. are useful for treating bacterial infections in human beings (no data).

ST antibacterial oxoanion prepn; bacterial infection human treatment oxoanion; microbial biofilm regulation oxyanion

IT Infection
(bacterial, treatment; preparation of antibacterial agents based upon oxoanion binding)

IT Carbonates, preparation
Sulfates, preparation
Sulfites
Sulfones
Urethanes
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cyclic; preparation of antibacterial agents based upon oxoanion binding)

IT Borates
Phosphates, preparation
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(esters; preparation of antibacterial agents based upon oxoanion binding)

IT Biofilms (microbial)
(formation regulator; preparation of antibacterial agents based upon oxoanion binding)

IT Oxyanions
(oxoanions; preparation of antibacterial agents based upon oxoanion binding)

IT Antibacterial agents
Human
(preparation of antibacterial agents based upon oxoanion binding)

IT Amides, preparation
Sulfates, preparation
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sulfamates, cyclic sulfamidates and sulfamidites; preparation of antibacterial agents based upon oxoanion binding)

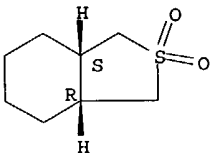
IT Cyclic compounds
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sulfones; preparation of antibacterial agents based upon oxoanion binding)

IT 5329-14-6DP, Sulfamidic acid, cyclic derivs.
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cyclic; preparation of antibacterial agents based upon oxoanion binding)

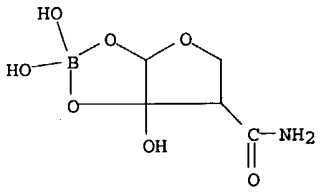
IT 66347-68-0, cis-Cyclohexane-1,2-dimethanol dimethanesulfonate
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation of, with sodium sulfide; preparation of antibacterial agents based upon oxoanion binding)

IT 54053-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and S-oxidation of; preparation of antibacterial agents based upon oxoanion binding)
IT 57-13-6DP, Urea, cyclic derivs. 2171-74-6P, o-Phenylene carbonate 6303-21-5DP, Phosphinic acid, cyclic esters and amides 7803-58-9DP, Sulfamide, cyclic derivs. 10043-91-1DP, Phosphorodiamidic acid, cyclic derivs. **66301-61-9P**, cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide **500729-74-8P 500729-75-9P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antibacterial agents based upon oxoanion binding)
IT 120-80-9, Catechol, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of antibacterial agents based upon oxoanion binding)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Coddington; Journal of Coordination Chemistry 1989, V20(1), P27 HCAPLUS
(2) Dale, J; US 3053880 A 1962 HCAPLUS
(3) de Gray; US 3325262 A 1967 HCAPLUS
(4) Degray; US 3564091 A 1971 HCAPLUS
(5) Sagulenko; Viniti 1984, P4184 HCAPLUS
(6) Singer, M; US 3873279 A 1975 HCAPLUS
IT **66301-61-9P**, cis-8-Thiabicyclo[4.3.0]nonane 8,8-dioxide **500729-74-8P 500729-75-9P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antibacterial agents based upon oxoanion binding)
RN 66301-61-9 HCAPLUS
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

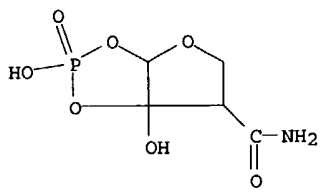
Relative stereochemistry.



RN 500729-74-8 HCAPLUS
CN Boron, dihydroxy[tetrahydro-4-hydroxy-4,5-di(hydroxy-.kappa.O)-2-furancarboxamidato(2-)]-, (T-4)- (9CI) (CA INDEX NAME)



RN 500729-75-9 HCAPLUS
CN Furo[2,3-d]-1,3,2-dioxaphosphole-6-carboxamide, tetrahydro-2,6a-dihydroxy-, 2-oxide (9CI) (CA INDEX NAME)



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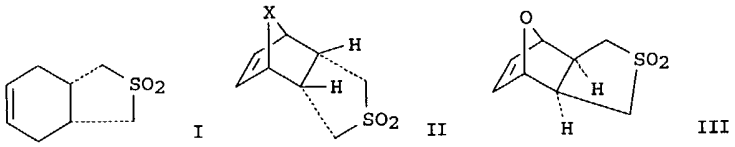
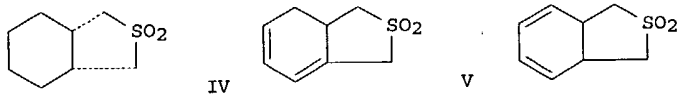
L27 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:58482 HCAPLUS
DN 123:111417
ED Entered STN: 08 Nov 1994
TI Fragmentation patterns in the gas-phase pyrolysis of some bi- and tricyclic sulfolanes related to the 8-thiabicyclo[4.3.0]non-3-ene 8,8-dioxide ring system
AU Aitken, R. Alan; Cadogan, J. I. G.; Gosney, Ian; Newlands, Stephen F.
CS Dep. Chem., Univ. Edinburgh, Edinburgh, EH9 3JJ, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (16), 2301-8
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
CC 22-8 (Physical Organic Chemistry)
GI

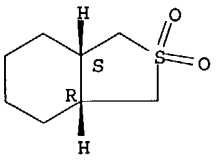




AB Depending upon the degree of ring strain, the thermal breakdown of cis-8-thiabicyclo[4.3.0]non-3-ene 8,8-dioxide (I) and related ring systems in the gas phase follows widely differing pathways. Decomposition of I occurs only under forcing conditions, resulting in complete fragmentation of the sulfolane ring to give benzene and toluene, while pyrolysis of the 2,5-bridged analogs II (X = CH2, CH2CH2) and III proceeds by a retro-Diels-Alder reaction at much lower temps. to give 1,3-dienes and the decomposition products of 3-sulfolene, buta-1,3-diene and SO2. Epoxidn. of the double bond in these compds. results in a marked change in their thermal fragmentation behavior; only SO2 is lost to produce novel divinyl epoxides. The corresponding N-(ethoxycarbonyl)aziridines, formed by photolysis of the unsatd. sulfones in Et azidoformate, undergo extensive decomposition on pyrolysis and do not yield any useful products. The saturated sulfone IV gives the expected octa-1,7-diene upon flash vacuum pyrolysis (FVP), but only under relatively severe conditions. Three isomeric diene sulfones (V and cis- and trans-VI) have also been examined and show a varied pattern of reactivity under FVP conditions.
ST pyrolysis bicyclic tricyclic sulfolane; thiabicyclononene dioxide pyrolysis
IT Thermal decomposition
(flash, of bi- and tricyclic sulfolanes)
IT 81872-47-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization reaction with sodium sulfide)
IT 1871-52-9, 1,3,5-Cyclooctatriene 3725-28-8, Bicyclo[4.2.0]octa-2,4-diene
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(formation in pyrolysis of thiabicyclononadiene dioxide)
IT 2434-67-5 74626-69-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)
IT 165727-63-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and conversion to thiabicyclononadiene)
IT 165727-57-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization reaction with sodium sulfide)
IT 165727-64-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and debromination of)
IT 165727-55-9P 165727-56-0P 165727-68-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
IT 53292-01-6P **66301-61-9P** 83947-07-3P 92688-77-2P
92688-78-3P 165727-65-1P 165727-66-2P 165727-67-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and pyrolysis of)
IT 86814-82-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and tosylation of)
IT 165727-58-2 165727-59-3 165727-60-6 165727-61-7 165727-62-8
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(preparation of)
IT 2471-91-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 98-59-9, Toluene-p-sulfonyl chloride 92688-88-5 95722-43-3
166019-64-3 166019-65-4 166019-66-5 166019-67-6 166019-68-7
166019-69-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(pyrolysis of)
IT 5675-13-8, trans-1,2-Dihydrophthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)
IT 106137-27-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(tosylation of)
IT **66301-61-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and pyrolysis of)
RN 66301-61-9 HCAPLUS
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L27 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1984:6274 HCAPLUS
DN 100:6274
ED Entered STN: 12 May 1984
TI Synthesis of cis-3-thiabicyclo[4.3.0]nonane and cis-3-thiabicyclo[3.3.1]nonane
AU Volynskii, N. P.; Urin, A. B.; Gal'pern, G. D.
CS Inst. Neftekhim. Sint. im. Topchieva, Moscow, USSR
SO Neftekhimiya (**1983**), 23(4), 542-7
CODEN: NEFTAH; ISSN: 0028-2421
DT Journal
LA Russian
CC 27-15 (Heterocyclic Compounds (One Hetero Atom))
OS CASREACT 100:6274
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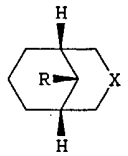

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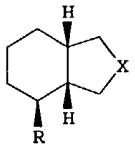
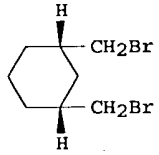


III



V

AB Treatment of cyclohexene with paraformaldehyde and HCl gave I (R = Cl, X = O) (II) and III (R = Cl, X = O) (IV). Dechlorination of II by Na-MeOH gave I (R = H) whose pyran ring was cleaved by HBr to give V which was cyclized by Na2S to give I (R = H, X = S). Subsequent oxidation by 30% H2O2 gave the corresponding sulfoxide and sulfone. A similar series of reactions with IV led to III (R = H, X = S).

ST thiabicyclononane isomer; bicyclononane thia isomer; benzothiophene octahydro

IT 30525-89-4
RL: PROC (Process)
(addition of, to cyclohexene in presence of hydrochloric acid)

IT 13019-30-2P 57702-85-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cyclization by sodium sulfide)

IT 87947-22-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydrochlorination of)

IT 13149-01-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and furan ring cleavage by hydrobromic acid)

IT 50305-98-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

IT 20742-48-7P 54053-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

IT 280-71-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and pyran ring cleavage by hydrobromic acid)

IT **66301-61-9P** 87947-23-7P 87947-24-8P 87984-60-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 7639-10-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, dechlorination, and dehydrochlorination of)

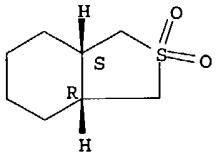
IT 110-83-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with paraformaldehyde in hydrochloric acid)

IT **66301-61-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 66301-61-9 HCAPLUS

CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L27 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1978:169654 HCAPLUS

DN 88:169654

ED Entered STN: 12 May 1984

TI 1,2-Dimethylcyclobutenes by reductive ring-contraction of sulfolanes: cis-7,8-dimethylbicyclo[4.2.0]oct-7-ene

AU Photis, James M.; Paquette, Leo A.

CS Dep. Chem., Ohio State Univ., Columbus, OH, USA

SO Organic Syntheses (1977), 57, 53-60
CODEN: ORSYAT; ISSN: 0078-6209

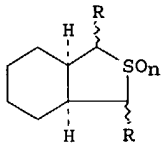
DT Journal

LA English

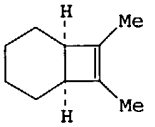
CC 24-7 (Alicyclic Compounds)

Section cross-reference(s): 27

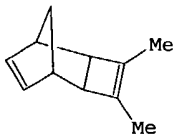
GI



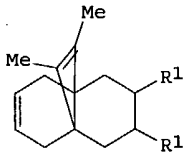
II



IV



V



VI

AB Treatment of cis-1,2-cyclohexanedicarboxylic anhydride with LiAlH4 in THF gave 98-100% cis-1,2-cyclohexanedimethanol, which was treated with MeSO2Cl to give 96-8% bis(methanesulfonate) I. Treatment of I with Na2S gave 68.0-70.5% II (R = H, N = O), which was oxidized to give 92-5% II (R = H, n = 2) (III). Treatment of III with BuLi and MeS gave 29.5-37% IV. Six addnl. compds. , e.g. V and VI (R1 = H; R1R1 = bond), were prepared in 20-67% yield.

ST redn ring contraction sulfolane; cyclobutene dimethyl; bicyclooctene dimethyl; tricyclic compd

IT Ring contraction
(reduction and, of sulfolane)

IT Reduction
(ring contraction and, of sulfolanes)

IT 74-88-4, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of octahydrobenzothiophene oxide)

IT 124-63-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification by, of cyclohexanedimethanol)

IT **66301-61-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of)

IT 54053-76-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

IT 15753-50-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with methanesulfonyl chloride)

IT 66347-68-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with sodium sulfide)

IT 60090-27-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive ring contraction of)

IT 53291-98-8P 53292-02-7P 53292-03-8P 53292-10-7P 53503-75-6P 61122-02-9P 66301-62-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

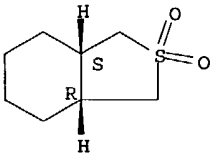
IT 13149-00-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)

IT 17853-54-2 24139-28-4 33802-56-1 41065-78-5 53292-00-5 53292-09-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reductive ring contraction of)

IT **66301-61-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of)

RN 66301-61-9 HCAPLUS
CN Benzo[c]thiophene, octahydro-, 2,2-dioxide, (3aR,7aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



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